



The Adaptive Mind - General Meeting
Thu 3 – Fri 4 July, 2025
Rauischholzhausen Castle
Schlosspark I, 35085 Ebsdorfergrund

Contact for administration, travel and accommodation

Kirsten Hecke

phone: +49 641 99 26115

Kirsten.Hecke@psychol.uni-giessen.de

Contact for research questions

Filipp Schmidt

Filipp.Schmidt@psychol.uni-giessen.de



Thursday, July 3rd

Time

9:30 *Coffee and Arrival*

10:15 **Welcome note**

Talk session I: Adaptation for Action

Chair: Meaghan McManus

10:30 Danilo Kuhn: *Search and act: human multi-target foraging*

11:00 Abir Chowdhury: *The earlier you know, the smoother you act*

11:30 Alap Kshirsagar: *Robot arms in action: interaction, perception, manipulation*

12:00 *Lunch*

Talk session 2: Perceiving and Acting under Uncertainty

Chair: Fabian Tatai

- 1:30 Lina Eicke-Kanani: *Temporal aspects of causal impressions*
- 2:00 Benedikt Kretzmeyer: *The influence of different decision horizons on solving the exploration-exploitation dilemma in a virtual supermarket*
- 2:30 Yifei He: *How action leads to perceptual preference? A neural-computational approach*
- 3:00 Coffee Break
- 3:00 **Poster session**
- 4:00 **Individual project meetings / Meeting of the directorate**

Keynote lecture: Dorothy Cowie (Durham)

Chair: Laura Fassbender

- 5:30 Dorothy Cowie: *Children's adaptation to virtual and real augmented bodies*
- 6:30 Dinner
- 8:00 Evening Time

Friday, July 4th

Time

Talk session 3: Maladaptation and Special Populations

Chair: Anna-Lena Eckert

- 9:00 Stefan Hofmann: *Understanding mental health as adaptation to a given context*
- 9:30 Christina Schmitter: *Neural and perceptual correlates of action feedback processing and delay adaptation in schizophrenia spectrum disorders*

10:00 Hamidreza Jamalabadi: *Optimal neural engineering of human cognitive experience*

10:30 *Coffee Break*

Talk session 3: Scenes and Context

Chair: Bianca Baltaretu

11:00 Sule Tasliyurt-Celebi: *Previous scene context shapes the neural dynamics of face detection in natural scenes*

11:30 Yury Markov: *How context shapes object perception and visual search in realistic scenes*

12:00 Tom Wallis: *3D scene metamers: using physically based differentiable rendering to probe vision models for scene understanding*

12:30 *Lunch*

Keynote lecture: Andreas Wutz (University of Salzburg)

Chair: Philipp Flieger

2:00 Andreas Wutz: *Internally-generated neural and bodily dynamics underlie the perception of external time*

3:00 *Closing and Departure*

Posters

1. Alexander Kress & Frank Bremmer: *Self-motion processing during real-world navigation and its neural correlates*
2. Alexander Schütz, David Souto, & Rozana Ovsepian: *Self-induced motion is recalibrated based on the vector average during smooth pursuit eye movements*
3. Amaia Zurinaga Gutierrez & Hamidreza Jamalabadi: *Anticipating the next step: predictive models of brain connectivity dynamics*
4. Anna-Lena Eckert & Dominik Endres: *Active inference of interpersonal context*

5. Anna Schroeger, Alexander Goettker, Doris Braun, Leonard Gerharz, Dimitris Voudouris, & Karl Gegenfurtner: *Strategies and differences in eye, hand and head movements across several versions of a continuous interception game*
6. Bianca Baltaretu, Petros Georgiadis, Melissa Vö, & Katja Fiehler: *Scene semantic effects on spatial coding in naturalistic (virtual) environments*
7. Bitá Sharaitapanahi, Erfan Nozari, Tim Hahn, Stefan G. Hofmann, & Hamidreza Jamalabadi: *Dynamical neural constraints on cognitive experience*
8. Britta Hinneberg, Heiko Maurer, Lisa Maurer, Hermann Müller, & Mathias Hegele: *Context-dependent modulation of neural signatures in motor reinforcement learning*
9. Fabian Tatai, Dominik Straub, Dimitris Voudouris, Katja Fiehler & Constantin Rothkopf: *Explaining suppression during reaching movements with optimal control*
10. Frieder Hartmann, Guido Maiello, Fabrizio Lepori, Constantin Rothkopf, & Roland Fleming: *Visually-guided natural human grasping with articulated hands*
11. Hua-Chun Sun & Roland Fleming: *Material image morph and binocular integration*
12. Jeremy Badler & Alexander Schütz: *What blind spot? One-eyed individuals are overconfident of missing visual information*
13. Kai Streiling & Loes van Dam: *The Mario-Cart effect - misattribution of agency in continuous control*
14. Laura Faßbender, Lisa Maurer, Johannes Falck, Yee Lee Shing, & Gudrun Schwarzer: *Magic Drawer 2.0: developmental insights into motor learning and adaptation*
15. Lisa Lin & Katja Dörschner: *Eye-movements during active exploration of material qualities*
16. Meaghan McManus, Franziska Seifert, Immo Schütz, & Katja Fiehler: *Allocentric spatial representations dominate when switching between real and virtual worlds*
17. Narges Salehi, Simone Nahrgang, Wiebke Petershagen, Till Dembek, David Pedrosa, Lars Timmermann, Immo Weber, & Carina Oehrns: *The effect of theta-frequency deep brain stimulation on working memory*
18. Oliver Hahn, Christoph Reich, Nikita Araslanov, Daniel Cremers, Christian Rupprecht, & Stefan Roth: *Scene-centric unsupervised panoptic segmentation*
19. Philipp Flieger, Rico Stecher, & Daniel Kaiser: *Representations of scene beauty in space and time*
20. Sarah Alizadeh, Svenja Francke, Hamidreza Jamalabadi, & Felix Bernhard: *Experimental and methodological setup of closed-loop tVNS-fNIRS neurostimulation*
21. Stefan Lenze, Nick Augustat, Tobias Ortwein, Bernd Nicklas, Ortrun Brand, & Dominik Endres: *TAM DataHub: Infrastructure, services and support for harmonized data management in psychology and neuroscience*
22. Svenja Francke, Bitá Shariatpanahi, Alina Buschhüter, & Hamidreza Jamalabadi: *The theory of optimal affective priming*
23. Tahmineh Koosha, Alap Kshirsagar, Nick Augustat, Fabian Hahne, Christiane Melzig, Frank Bremmer, Jan Peters, & Dominik Endres: *Inferring virtual height-induced changes in postural control via inverse optimal*